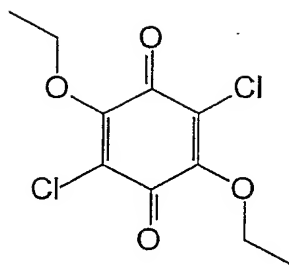


J6 [aka MJ6B] (permanent dipole)

Figure 1



L20 (induced dipole)

Figure 2

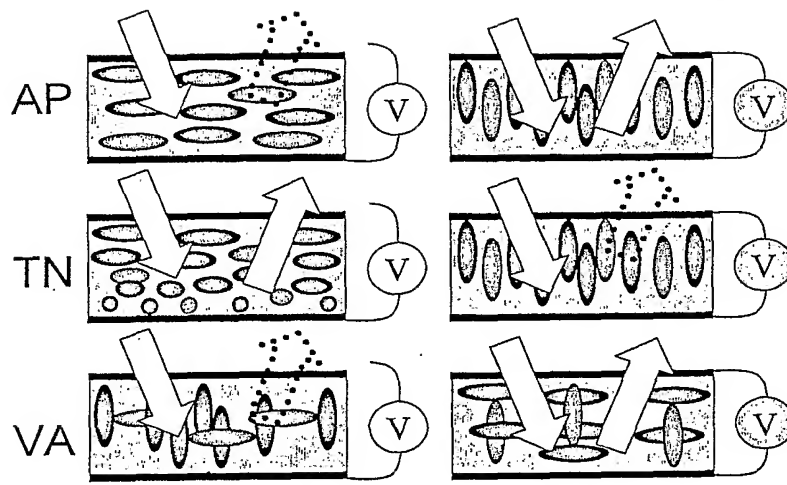
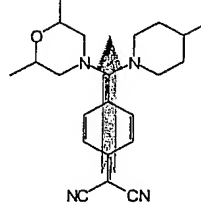


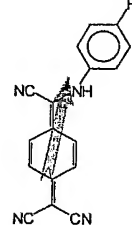
Figure 3

Mode	AP	TN			VAN	
LC & Dopant	$+\Delta\varepsilon$ & 1(A)	$+\Delta\varepsilon$ & 1(A)	$+\Delta\varepsilon$ & 4(B)	$+\Delta\varepsilon$ & 3(A)	$-\Delta\varepsilon$ & 2(A)	$-\Delta\varepsilon$ & 4(B)
$\Delta\varepsilon$	+15%	+15%	-5%	+12%	+12%	+6%
Rise time	+22%	+13%	+10%	+28%	+25%	+33%
Decay time	0%	+25%	+12%	+8%	+12%	0%

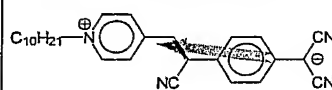
1(A) = MORPIP, 15D



2(A) = J6, 6D



3(A) = 10-γP3CNQ, 8D



4(B) = L20, 0.03D

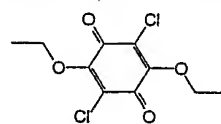


Figure 4

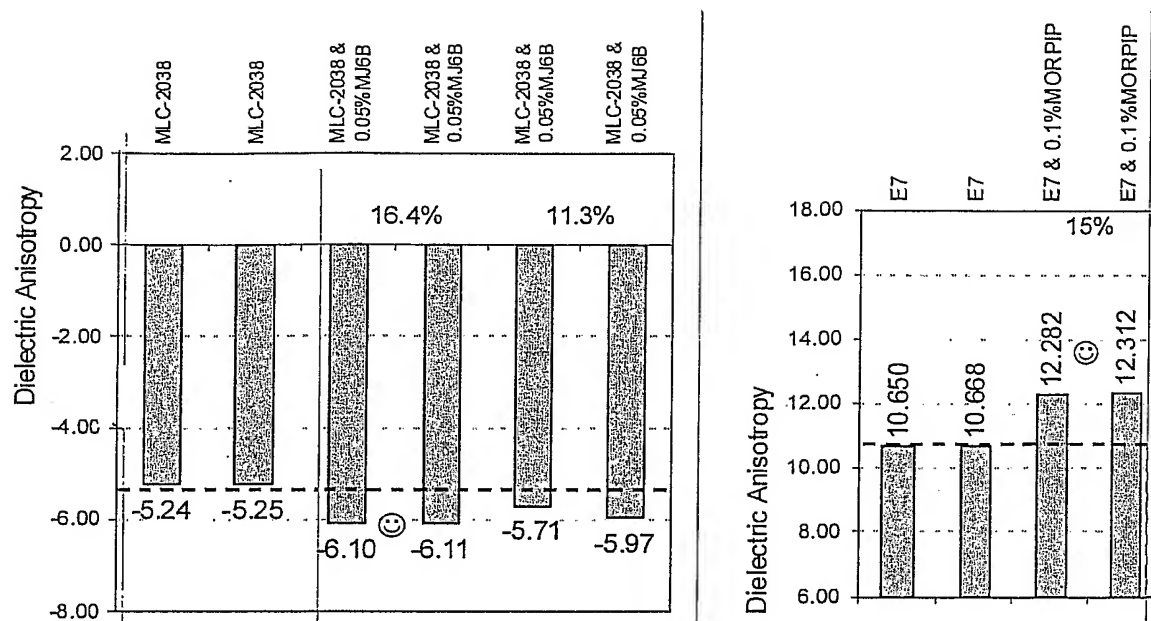


Figure 5

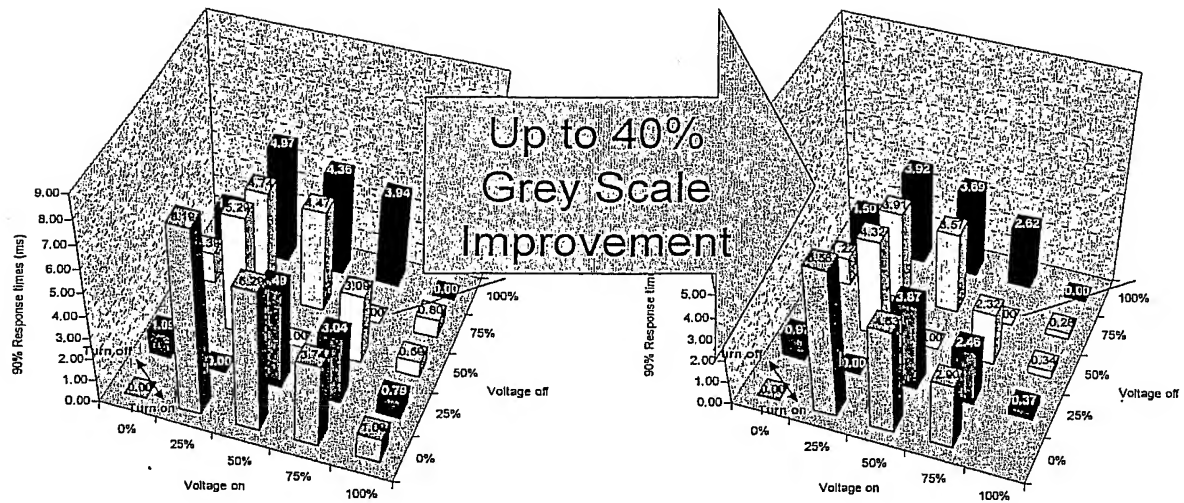
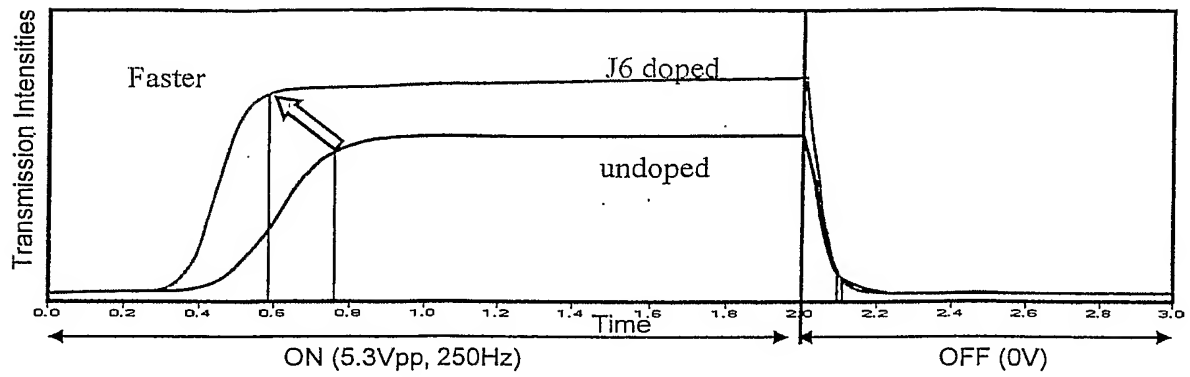
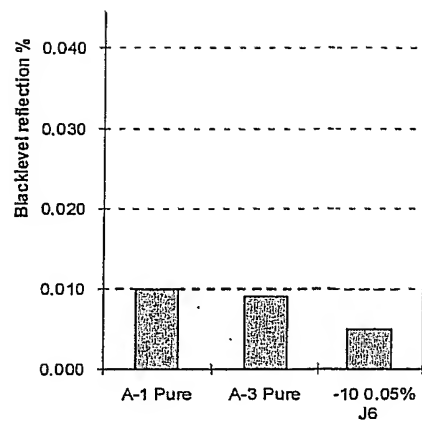


Figure 6

**Figure 7**

**Figure 8**

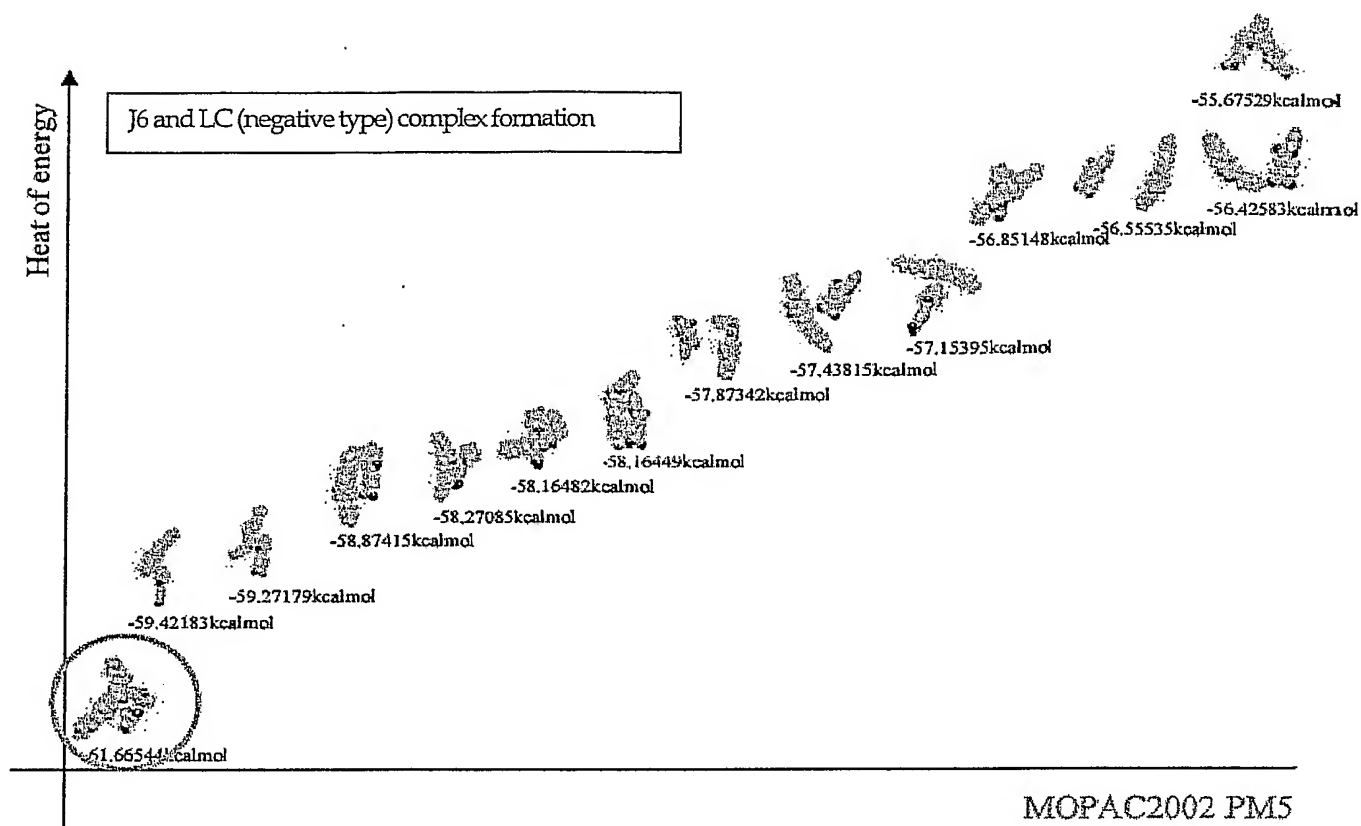


Figure 9A

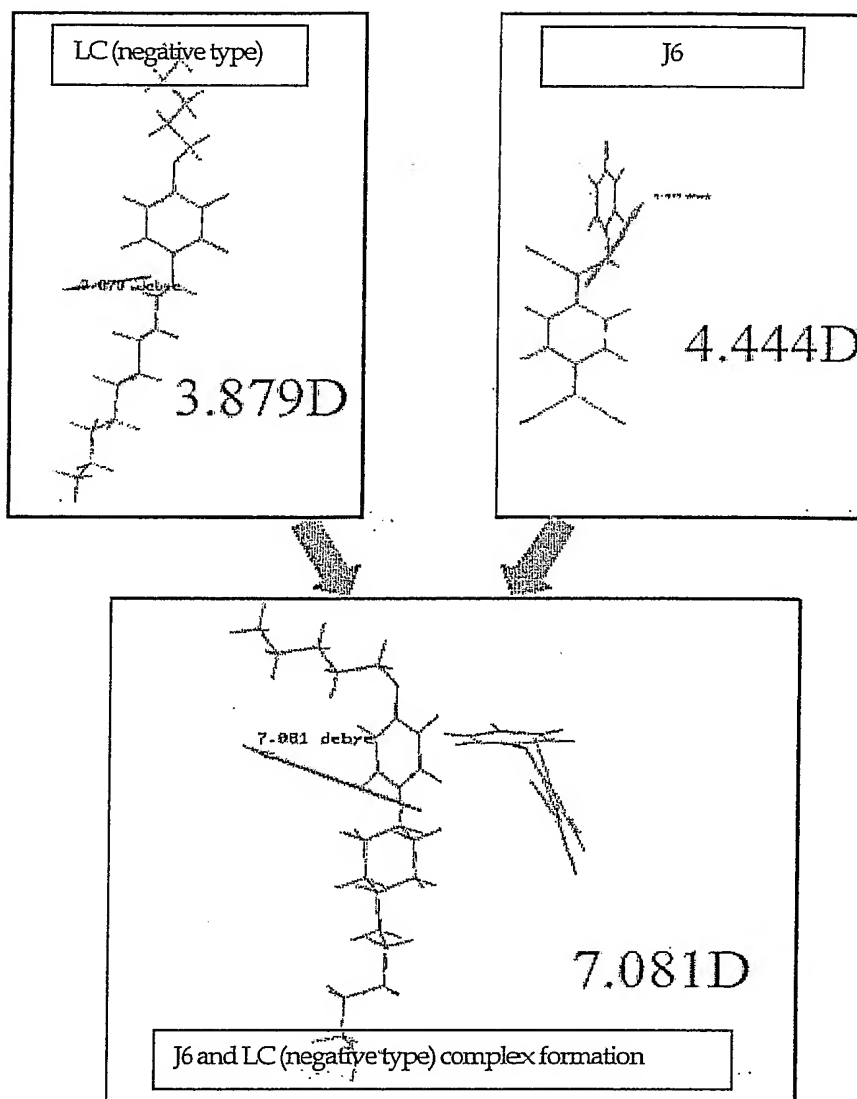


Figure 9B

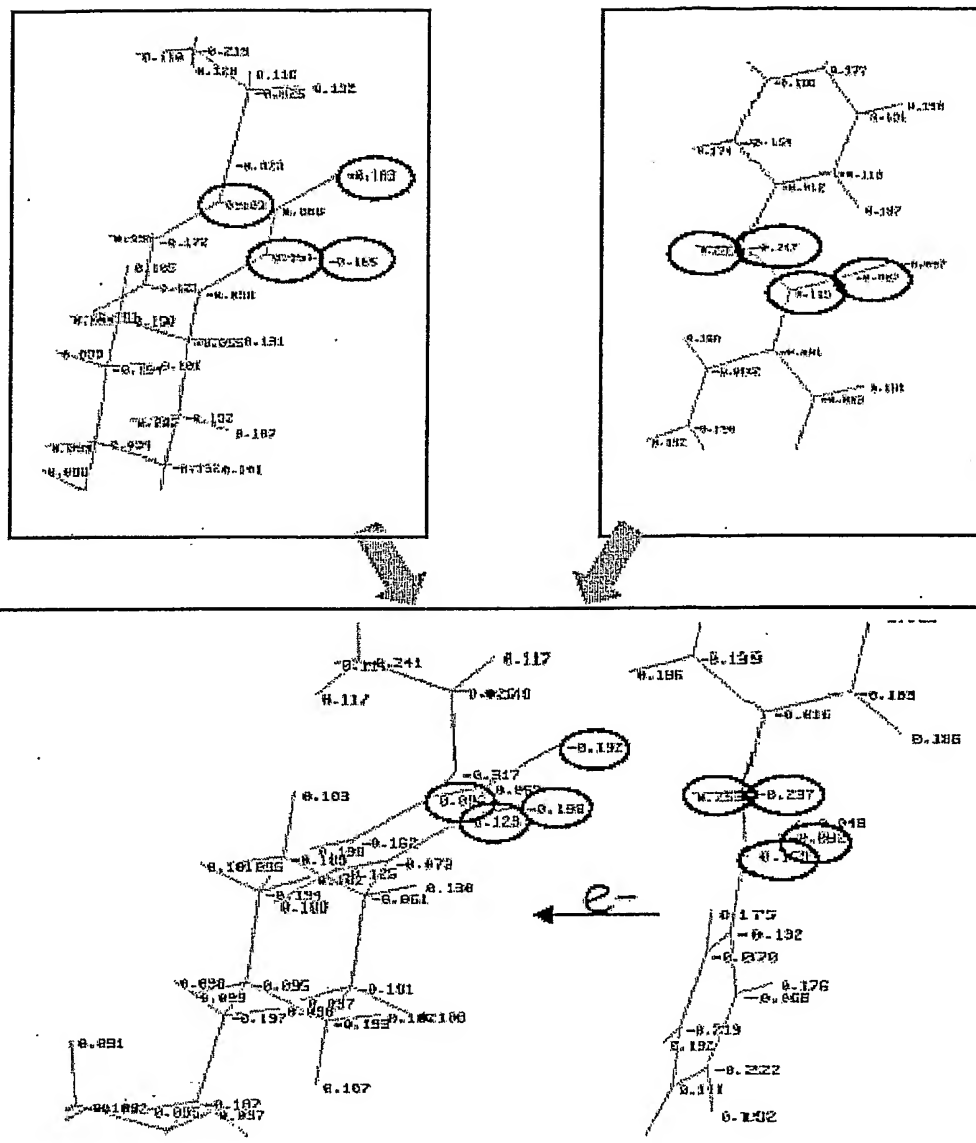
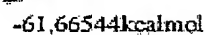


Figure 9C

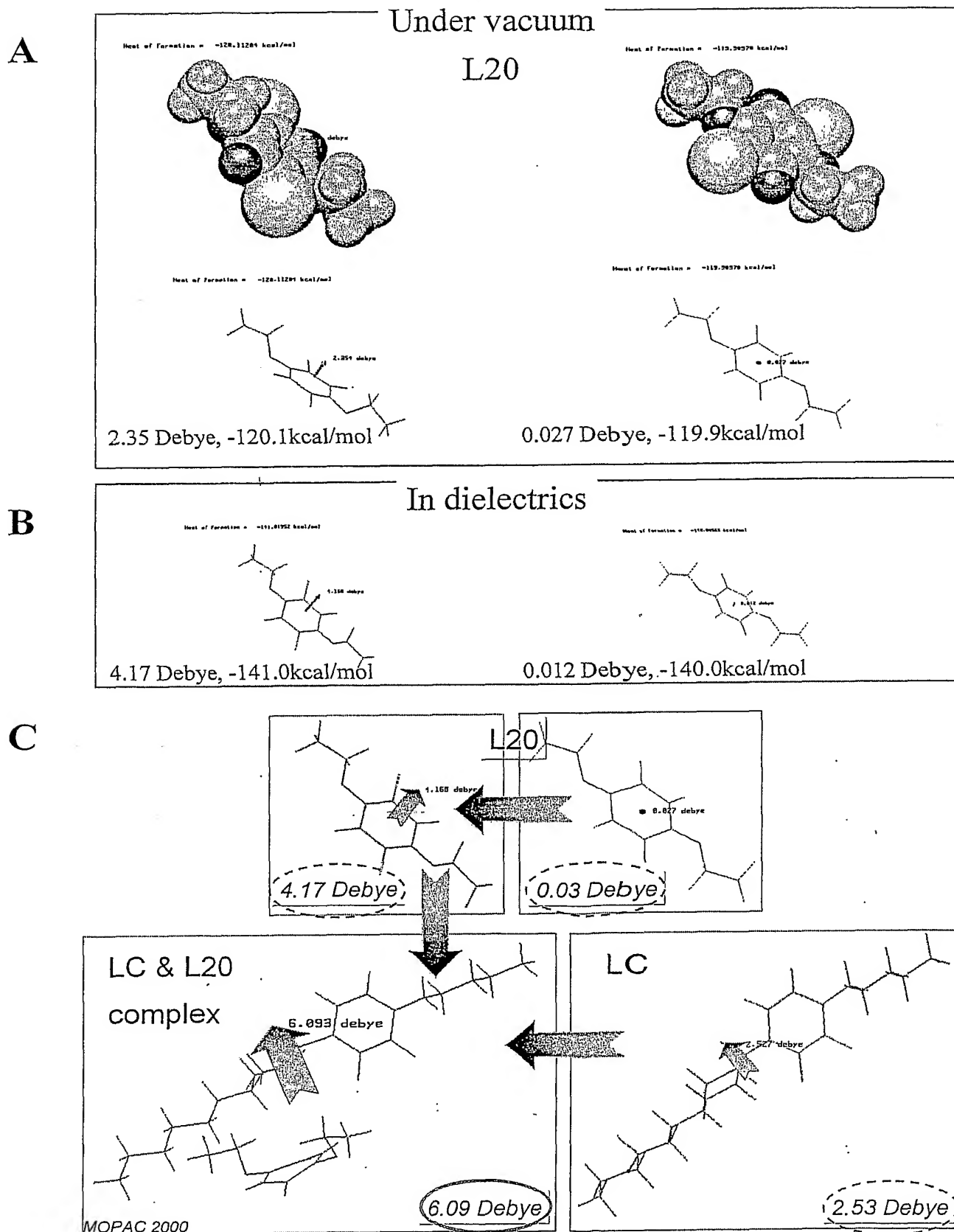


Figure 10